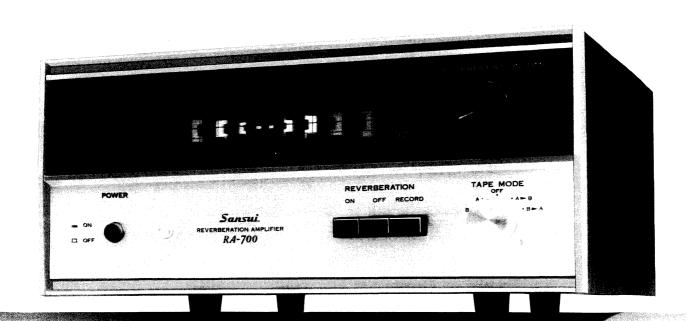
# SERVICE MANUAL

SOLID-STATE REVERBERATION AMPLIFIER

SANSUI RA-700





SANSUI ELECTRIC CO., LTD.



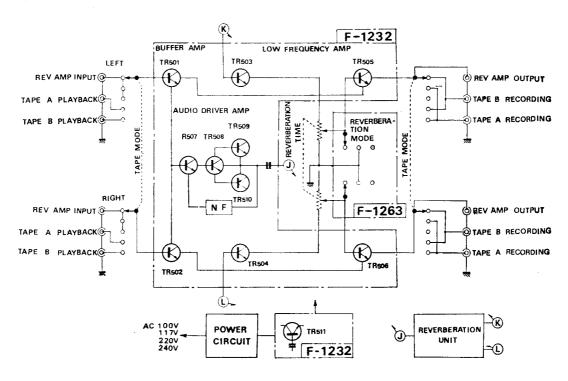
## 1. SPECIFICATIONS

RATED OUTPUT VOLTAGE	INPUT AND OUTPUT JACKS
300mV (at 1,000Hz, Reverber-	INPUT
ation time minimum Input	OUTPUT
level 200mV)	TAPE DECKA
MAXIMUM INPUT VOLTAGE	TAPE DECK—B
3V (at 1,000Hz, Reverbera-	LOAD IMPEDANCE 100k ohms
tion time minimum)	SWITCHES AND CONTROLS
HARMONIC DISTORTION	REVERBERATION MODE. ON, OFF, RECORD
Less than 0.2% (at 1,000Hz,	TAPE MODEREC/PLAY—B REC/PLAY—A
Reverberation time minimum	A—B DUBBING
output level 300mV)	B—A DUBBING
FREQUENCY RESPONSE 20 to 30,000Hz ±2dB	POWER REQUIREMENT
(at Reverberation time mini-	POWER VOLTAGE 100, 117, 220, 240V 50/60Hz
mum)	POWER CONSUMPTION9W (rated)
20 to 30,000Hz ±10dB	SEMI-CONDUCTORSTransistors: 11 Diodes: 3
(at Reverberation time maxi-	DIMENSIONS
mum)	4½″ (125mm) H,
SIGNAL TO NOISE RATIO	10½″ (264mm) D
65dB (at output level 300mV)	WEIGHT9.3lbs (4.2kg) Net
REVERBERATION TIME 1.9 to 3.2 second (at 1,000Hz)	11.9lbs (5.4kg) Packed
INPUT IMPEDANCEMore than 200k ohms (at 1,000Hz)	* Design and specifications subject to change without notice for improvements.

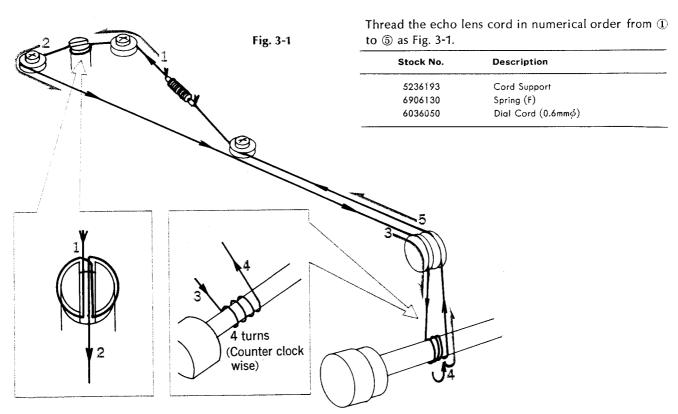
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### 2. BLOCK DIAGRAM

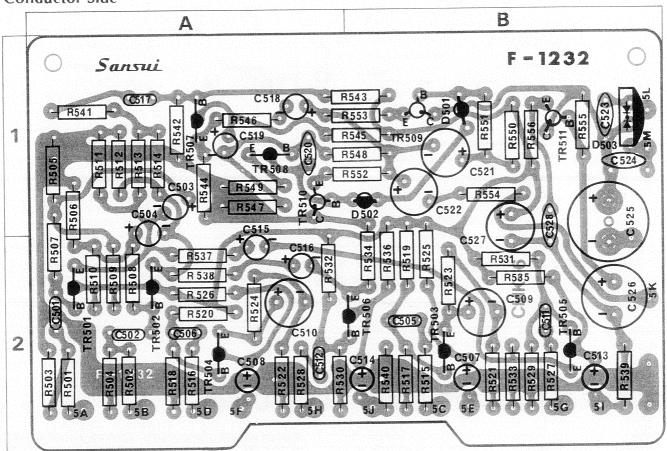


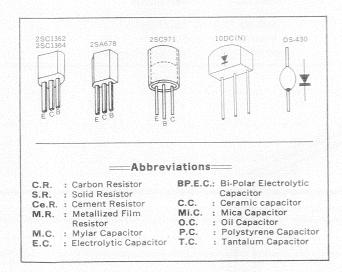
## 3. THREADING OF ECHO LENS CORD



## 4. PARTS LOCATION AND PARTS LIST

4-1. F-1232A Audio Driver Circuit Board (Stock No. 7592370 Complete Board F-1232A) Conductor Side





#### Parts List

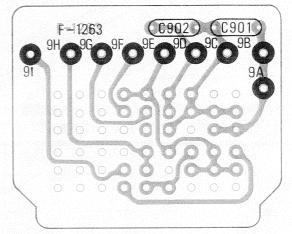
Parts No.	Stock No.	Description	Position
TR501,502	0306141,2	2SC1362⑤ (7,8))	2 A
TR503,504	0306141,2	2SC1362⑤ (7,8)	2 B . 2 A
TR505,506	0306141,2	2SC1362⑤ (7,8)	2 B . 2 A B
TR507,508	0306141,2	2SC1362(5) (7,8) Transistor	1 A
TR509	0305360,1	2SC734 (O.Y.)	1 B
TR510	0300100,1	2SA561 (O.Y.)	1 A
TR511	0305530,1	2SC971 (2, 3)	1 B
D501	0340090	DS-430 ) 5.	1 B
D503	0310680	10DC (N) Diode	1 B
C501,502	0601158	0.15μF 50V M.C.	2 B
C503,504	0511330	33μF 10V E.C.	1 A. 1,2 A

Parts No.	Stock No.	Desc	riptio	n	
C505,506	0601107	0.01μF	50V	M.C.	2 B . 2 A
C507,508	0513100	10 <i>μ</i> F	25V	E.C.	2 B . 2 A
C509,510	0510101	100μF	6.3V	E.C.	2 B . 2 A
C511,512	0601477	$0.047 \mu F$	50V	M.C.	2B.2A
C513,514	0514339	$3.3 \mu \text{F}$	35V	E.C.	2 B
C515,516	0513100	10μF	25V	E.C.	2 B
C517	0601337	$0.033 \mu F$	50V	M.C.	1 A
C518,519	0513100	10μF	50V	E.C.	1 A
C520	0660151	150 pF	50V	C.C.	1 A
C521,522	0513470	47μF	25V	E.C.	1 B
C523,524	0659009	$0.002 \mu F$	500V	C.C.	1 B
C525	0515331	330μF)			1,2B
C526	0515101	100μF	50V	E.C.	2 B
C527	0515470	47 μF )			1,2B
C528	0657473	0.047μF	50V	c.c.	1,2B
R501,502	0107222	2.2kΩ	)		2 A
R503,504	0107474	470kΩ			2 A
R505,506	0107274	270kΩ			1 A. 1, 2
R507,508	0107563	56kΩ			1,2A.2
R509,510	0107823	82kΩ			2 A
R511,512	0107682	6.8kΩ			1 A
R513,514	0107683	68kΩ			1 A
R515,516	0107222	$2.2 \mathrm{k}\Omega$			2B.2A
R517,518	0107683	68kΩ			2 B . 2 A
R519,520	0107824	820kΩ			2B.2A
R521,522	0107561	560Ω			2 B . 2 A
R523,524	0107222	$2.2 \mathrm{k}\Omega$			2 B . 2 A
R525,526	0107393	39kΩ			2 B . 2 A
R527,528	0107682	6.8kΩ			2 B . 2 A
R529,530	0107124	120kΩ			2 B . 2 A
R531,532	0107564	560kΩ			2B.2A
R533,534	0107222	2.2kΩ			2 B . 1, 2
R535,536	0107682	6.8kΩ			2 B . 1, 2
R537,538	0107332	3.3kΩ	1/4 W	/ C.R.	2 A
R539,540	0107393	39kΩ			2 B
R541	0107222	2.2kΩ			1 A
R542	0107683	68kΩ			1 A
R543	0107224	220kΩ			1 A , B
R544	0107182	1.8kΩ			1 A
R545	0107682	6.8kΩ			1 A , B
R546	0107332	3.3k Ω			1 A
R547	0107682	6.8kΩ			1 A
R548	0107683	68kΩ			1 A , B
R549	0107181	180Ω			1 A
R550	0107272	2.7kΩ			1 B
R551	0107102	lkΩ			1 B
R552,553	0107150	15Ω	1		1A, B
R554	0107220	22Ω			1 B
R555	0107223	22kΩ			1 B
R556	0107101	100Ω	1		1 B
R557	0107121	120Ω			

## 4-2. F-1263-6 Mode Selector Circuit Board

(Stock No. 7590460 Complete Circuit Board F-1263-6)

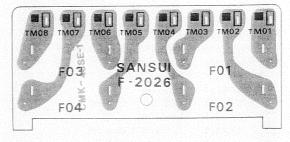
#### **Conductor Side**



#### Parts List

Parts No.	Stock. No.	Description
S3	1130410	Push Switch
С	0601567	0.056μF 50V M.C.

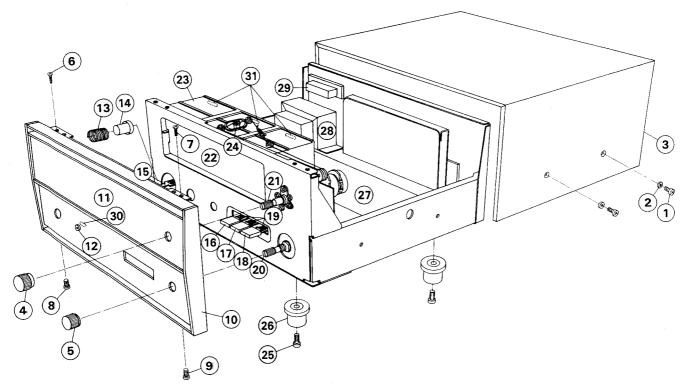
## 4-3. F-2026 Fuse Circuit Board Conductor Side



#### **Parts List**

Parts N	o. Stock i	ło.	Description
Foi	0432000	0.3A 250V	1
F02	0432000	0.3A 250V	Protector Fuse
F03	0432850	2.0A 250V	)
	2591370	F-2026 Prin	ted Circuit Board

## **4-4.** Other Parts (Front Side)



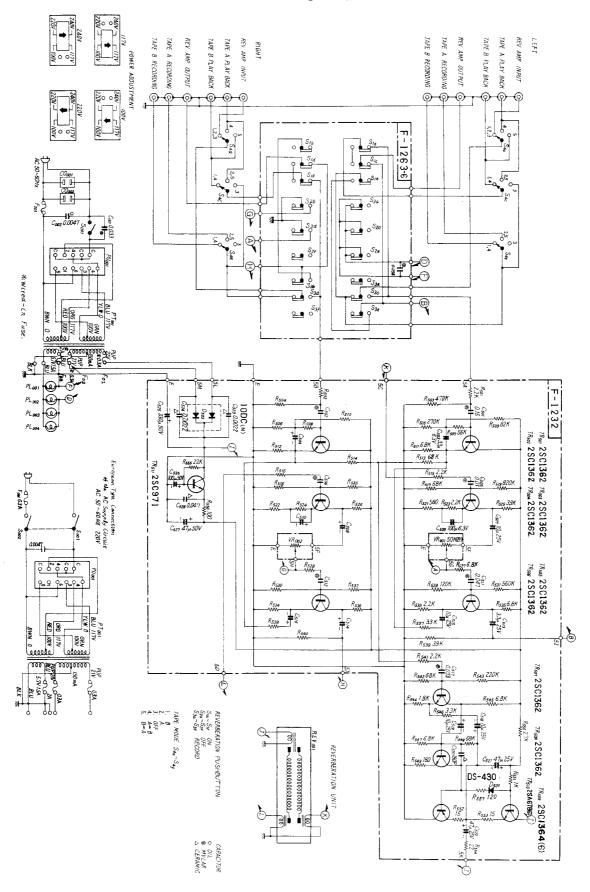
#### **Parts List**

Parts No.	Stock No.	Description
1 .	5101163	Binding Head Screw, M4×10
2	5186110	Plain Washer, $4\phi$
3	5726890	Wood Case
4	5316207	D-1 Type Knob, REVERBERATION TIME volume
5	5316621	V-1 Type Knob, TAPE MODE switch
6	5102843	Flat Countersunk Head Screw, M3×6
7	5102843	Flat Cauntersunk Head Screw, M3×6
8	5101043	Binding Head Screw, M3×6
9	5101043	Binding Head Screw, M3×6
10	5309560	Front Panel
11	<b>∫5047810</b>	Smoked Plate
1 1	(5446131	Echo Lens
12	∫5426102	Indicator
1 2	(5076031	Ring, Indicator
13	6906020	Spring, POWER switch
14	5326013	Push Button, POWER switch
15	1130160	Push Switch, POWER switch
16	5326181	Y-2 Type Push, Button
17	5326181	Y-2 Type Push, Button
18	5326181	Y-2 Type Push, Button
19	1130410	Push Switch (3 Stage)
20	1102270,1	Rotary Switch Y-2-6-5, TAPE MODE
21	1010531	50k $\Omega$ (B) $ imes$ 2, REVERBERATION TIME v

Parts No.	Stock No.	Description
22	5446210	Pattern
23	[5066130	inner Case, REVERBERATION INDICATOR
23	5066140	Outer Case, REVERBERATION INDICATOR
24	5236183	Cord Support
25	5101165	Binding Head Screw, M4×14
26	5516911	Foot (K-1526u)
27	4350010	Reverberation Unit
28	4000690	Power Transformer
29	[2410080	Voltage Selector, Socket
29	(2410090	Voltage Selector, Plug
30	0400120	Power Indicator Lamp 0.15A 8V
31	0420020	Reverberation Indicator Lamp
CO001,	2 2450011	AC Outlet 0.25A 6.3V
C001	0605337	0.033 $\mu$ F 250V M.C.
C002	0659802	0.0047 μF 1.4KV C.C.
F001	0431212	0.5A (100~117V)
	0431202	0.3A (220~240V)
	2310030	Fuse Holder (Pilot lamp)
	2300020	Fuse Holder (AC Fuse)
	2320070	AC Indicator Socket
	2230010	Ground Terminal
	2200320	Input Terminal
	2200340	Input Terminal

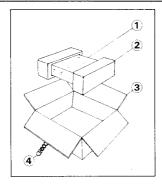
## 5. SCHEMATIC DIAGRAM

\*Design and specifications subject to change without notice for improvements.



## 6. PACKING LIST

Parts No.	Stock No.	Description	
1	9116232	Vinyl Cover	
2	9017680	Stylofoam Packing	
3	9008241	Cartor Case	
4	5996080	Curl Stopper	



### 7. ACCESSORY **PARTS LIST**

Stock No.	Description
3810180,1	Pinplug Cord
9208670	Operating instructions
9228670	Operating instruction Sheet